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(54) **AIR CLEANING AND DEODORIZING DEVICE FOR  
AUTOMOBILE**

by an air contamination detecting sensor 13.

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(57) Abstract

**PURPOSE:** To increase safety and convenience by arranging a coarse filter, a high performance dust collecting filter, an ozone generator, a circulating fan, an ozone deodorizing catalyst, and an acid gas adsorbent in order between an air inlet and an air outlet located on both ends of a case.

**CONSTITUTION:** An inner case 2 is arranged inside an outer case 1, and a fan and a drive base board 9 are arranged inside the inner case 2. Also coarse dirt is removed by a net and a filter 4 arranged in an opening part 11, and then fine particles and smoke particles of cigarette are removed by a high performance filter 5. Then a ozone generator 14 is arranged on the drive base plate 9, and the generated ozone is oxidation-reduced on the surface of an ozone deodorizing catalyst 7. In addition, acid gas flowing from the outside of a car is adsorbed with acid gas adsorbent 6, and then exhausted at a specified air pressure. On the other hand, a variation in ozone exhausting is monitored by an ozone detecting sensor 10, and air contamination is detected

